^{139}I

The discoveries of ^{139}I was reported by Sugarman from Argonne National Laboratory in the 1949 publication "Short-lived halogen fission products" (1949Su14). Uranyl nitrate was irradiated to produce ^{139}I by neutron induced fission. Decay curves were measured following chemical separation. "Isolation of Cs^{138} both from the gas separated from AgI precipitates and from the precipitates directly led to a half-life determination for I^{138} of 5.9±0.4 sec. Extractions of Ba^{149} yielded a value of 2.7±0.1 sec. for the half-life of I^{139}."

Adapted from reference (2013Ka01)

1949Su14 N. Sugarman, J. Chem. Phys. **17**, 11 (1949).

2013Ka01 J. Kathawa, C. Fry, and M. Thoennessen, At. Data Nucl. Data Tables **99**, 22 (2013).

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